

Aug

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CHGO Radio

Verification of Your Reception

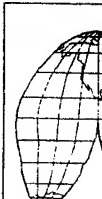
Date April 8/9, 1990

Time 23:30 - C2:11 (UTC)

Freq 7415 (kHz)

Power 20 Watts

LAST
BROADCAST



LONG

I have checked your reception report and hereby confirm that the station you heard was CHGO.

Global F
Call AME
<312> 2
A user-s

Thank you for your report!

"Long" John Silver, aka
JOHN ROSENGARTEN

Personal message:

Each of us contributes to the level of peace of the world. Please realise that your actions when you create bad feelings among the people to the sorrows of the world. Little actions can do more to contribute to world peace than talk in the world. Be nice to each other. Do not create stress for others, and most of all, control your craziness, at least do not express it.

A little action speaks more loudly than a thousand words in the world; a small kindness is better than the

Try to control the animal in you, let your mind see the results of our actions, but do not overdo. Philosophy does not do as much as kindness. Love first, love best, love as it is (for it does!).

Enough, you probably think I am trying to be nice to you! I would never try to do so. But if you are a little kinder to your loved ones, your kindness will gladly remind you that you can be better.

Thanks for taking the time to think about the future for the good!

Don -

 Welcome to the August Dialogs Column. I am able to hear some of the activity during the month. A special thanks to all of you who contributed a couple of requests. Please make sure your name and that your name is on all of the logging forms of contributions, without names. You can make copies of the form that appeared a couple of months ago, and before making logs, write your name and state on the blank form, which saves it each time. Logging forms make the input job alot easier, and can be pre-sorted by station, date, etc. Also, please make sure you use the correct GMT date. I received several logs this month which I believe have local date with GMT time as the sign off time directly matches a broadcast from others with the next day's date. Please send your loggings to P. O. Box 11201, Shawnee Mission, KS 66207-0201. The logs must be RECEIVED here by the 25th of the month to be included in the next bulletin. If you accumulate lots of logs early in the month, consider sending them on to me, with supplemental mailing near the deadline. I input material as it comes in, so it is a big help to not have huge stacks of loggings awaiting on the 25th of the month.
 Now, on the the logs.....

CFBN: 7414.7, 7/1, 0210.0. Shoulder pads. Xmas on Canada. Greetings to Bob Ross. PSE QSL. CFBN, Fly By Night Radio. Chatter box. Mx by Judy Collins & Simon & Garfunkel. (HANINGTON,ONT) (ROUTENBURG,ONT) (CONNOR,PA) 7420, 7/14, 0200-0210, SIO=434. "This is the night radio." "Eleanor Rigby" by YL. OM anncr resp to hear more Gordon Lightfoot mx. (ANDERSON,VA) 0217*. Ian & Sylvia, Joan Baez mx. Humorous spot for vacation resort. "O, Canada" sung by youth choir. Said hill south of Tuktoyuktuk. Wellsville addr. May really be Folk mx. Joan Baez & Judy Collins. (PROVANCE,OH) (ROUTENBURG,ONT) (SMOLINSKI,MD via ANARC BBS) (SUESS,WI) (HANINGTON,ONT) (CONNOR,PA) (FULLER,MA via ANARC BBS) (MEECE,OH via ANARC BBS) (FOSTER,MI) (SACHS,IL) [loon IS, anncd ACE for rpt & later Wellsville; DJs are Fly Bros., Black & House] [Editor's note: We DO NOT function as a maildrop for any station. If you want a response through the ACE, please include your addr with your log of the stn.]

CSIC: 7470, 6/24, 0035-0040. Loud FMN ute QRM. L. SIO=232.

 SIO=232. This is C-

sounded like comedy skit. Said to QSL to PopComm. Hard rock mx. PSE QSL. (PROVANCE,OH)

Fourth of July Radio: 7410, 7/4, 2359-0041*, SIO=242. 6 note IS of "Born in the USA." Anncd as "all-American stn, bcsting from the heartland of the United States." Rock & talk by Jett Johnson. Interviews w/ correspondents in places like TN & SD. No addr hrd despite promise. (ZELLER,OH) 7410, 7/5, 0000-0044. Songs by Heart w/ "Born in the USA" at QRT. PSE QSL. Much QRM. "Nothing Compares to You." Sudden QRT @ 0044. (SMOLINSKI,MD via ANARC BBS) (SPURLOCK,TN via ANARC BBS) (FOSTER,MI) 7410.1, 7/5, 0120, SIO=433. Annrc Jett Johnson playing var recent pop hits. Said no addr yet. (MEECE,OH via ANARC BBS) 7415 SSB, 7/15, 0345-0350, SIO=343. Good sig & audio. Mentioned BRS addr. (HAVRILKO,FL) 7415, 7/15, 0346. Whistle IS w/ tune "Born in the USA." S/on w/ only content being annmnt of QSL addr of Blue Ridge Summit. (BAXTER,KS) (SMOLINSKI,MD via ANARC BBS) (SUESS,WI) (ARTHUR,NY via ANARC BBS) (FOSTER,MI)

Hello Radio (phony): 7415, 7/15, *0055-0059*, SIO=454. QSO w/ Jingle Bell. PSE QSL. (PROVANCE,OH)

Hope Radio International: 7385, 7/4, *0309-0327*. New wave intro mx. Phil Muzik doing a John Arthur imitation. Lots of comment abt free radio & the money it takes to have the FCC smile kindly upon you. Rock song abt being filthy rich. Caustic comment abt truth in advertising & armed forces ads. Off abruptly during Janet Jackson tune. Heavy beer ad stolen from V of Laryngitis. (PROVANCE,OH) (FULLER,MA via ANARC BBS) (ZELLER,OH) The REAL John Arthur does not find this funny! (ARTHUR,NY via ANARC BBS) 7350, 7/4, 2002-2057*. John Arthur w/ talks abt Army ads. FCC regulations. Xmtr probs. Dedicated "Airhead" to Al Sikes of FCC; plug for A*CE. Fruit of the Loom news brief. V of Laryngitis beer ad. Solicitation for studio quality tapes. (CONNOR,PA) (COLLINS,WI) 7370, 7/5, 0002-0054*. Repeat of 7/4 pgm. Great sig, rivaling WRNO here in PA. Short QSO w/ Samurai R at 0100. "Member in good standing in the Pirate Radio Network. (CONNOR,PA) (FULLER,MA via ANARC BBS) (MASYGA,MN) 7415, 7/5, 0057-0140, SIO=444. QSO w/ Samurai R. Technical talk abt power. (FOSTER,MI) (MASYGA,MN) 7415, 7/5, 0122-0135, SIO=444. OM annrc in QSO w/ Mr. Music, & maybe others. R. Happy Isle also involved w/ "recipes" for local delicacies. (KOSAKOWSKI,MA) 7415, 7/5, 0129, SIO=444. Fr. O'Malley laying down rap abt "Chastity is the only way" then lost. (SPURLOCK,TN via ANARC BBS) 7400, 7/14, 0240-0305*. Comedy bits - Firesign Theater segment. Pirate logs; Radio Animal pgm. Watery sounding QRM. (COLLINS,WI) (ANDERSON,VA) 7365, 7/15, 0204+, SIO=323. QRM; would have been nice copy. (COLLINS,WI) 7400, 7/15, *0222-0301*. Said it was repeat bcst. Long satirical piece. "John Arthur" read Fruit of the Loom News Briefs. Father O'Malley pitched a smoke detector for the American Flag. PSA for Amateur Broadcasting, Just Disgustin's Cajun Kitchen skit. Read various warning labels. Skit abt gerbil consumption, Indians & Custer. Sparky of WKZF w/ promo. (FULLER,MA via ANARC BBS) (SUESS,WI) (FOSTER,MI) Strongest pirate hrd in FL to date. (HAVRILKO,FL) (SMOLINSKI,MD via ANARC BBS) (PROVANCE,OH) (SACHS,IL) Good ad for ACE. (BAXTER,KS) 7400, 7/15, 0300-0314*, SIO=443. Pgms requested. Editorial re Free Radio ops. Very extensive pirate list de R. Animal for 5/26. (HANINGTON,ONT) 7363.9, 7/16, 0214-0230+. Replay of Firesign Theatre skits. Lots of UTE QRM. Skits abt expansion of American frontier w/ the Indians. Jammer @ 0219; went off periodically, seemingly to check if HRI was still on. Requested tapes. BRS addr & ad for ACE. ID by Sparky. (BAXTER,KS) 7364.2, 7/16, 0236-0240*, SIO=423. End of same show hrd 7/15 on 7400. (PROVANCE,OH) [Blue Ridge Summit address]

Jingle Bells Radio: 7415, 7/15, *0055-0059*, SIO=252. QSO w/ phony Hello R. Tried unsuccessfully to get response de WFCK. PSE QSL. (PROVANCE,OH) (MASYGA,MN) 7415SSB, 7/15, 0200, SIO=243. In QSO w/ Action R. (HAVRILKO,FL)

KEND: 7545, 6/24, *0447-0457*, SIO=454. Used WYFR's IS, singing chorus ID. IDed as "KEND, the Voice of the Valley of the Shadow of Death." Played tape describing an electrocution. Mentioned someone who was recently electrocuted. Very brief show. PSE QSL. (PROVANCE,OH)

KJDI: 7410, 7/4, 0010-0020*, 0022-0024* & 0028 0011*. Poor copy. Rock mx in heavy static. (MASYGA,MN)

KNBS: 7412.6, 7/7, 2342-2346, SIO=354. QSO w/ Samurai R. (PROVANCE,OH)

KPLU (KBLU?): 7415, 7/22, 0213-0309, SIO=242. SSB sig. Much overb in audio. Mx by Zappa, Cream & Eric Clapton. Hot Foot Truckers ad. LA Woman by Doors; 4 note IS at QRT. PSE QSL. (HARRILL,RO,MI) 7416 USB, 7/22, 0226-0306, SIO=333. Much Zappa mx & interview w/ him. Hrd Ft Worth, TX addr (POB 123082) anncd for QSLs & for bumperstickers. "Bus Stop" by the Hollies played twice near end of xmsn. PSE QSL. IS hrd at end. Hrd mx by CCR & Paul Revere. Drag racing spoof. (BAXTER,KS) (MASYGA,MN) (BACHS,IL)

9X2V: 7400, 7/15, *0240-0250*, SIO=242. Must be collecting 3 cent stamps. Rockin' swing mx. (COLLINS,WI) 7400, 7/16, 0240-0250*, 7/10 111. Killed by heavy UTE QRM. Dixieland jazz, OM DJ. (PROVANCE,OH) 7405, 7/17, 0254-0315*, SIO 454. New show, giving a Mx ad. Long drawn out "trading post" type show selling goods down pillow, shortwave radio, record players, etc. Really overdone. (PROVANCE,OH)

One Voice Radio: 7415, 6/29, 0254-0306*, SIO 122. Mx. Greetings to Canadian listeners. Health talk. (COLLINS,WI) 7415, 6/10, 0248-0307, SIO=122. Big studio problems. Used health greetings. Reminded listeners to watch sugar & salt intake. (FOSTER,MI) 7415, 7/1, 0000-0018, SIO=111. Mx w/ health news, cholesterol, cancer, baldness. Original mx w/ off. (CONNOR,PA) 7415, 7/1, 0000-0024, SIO=222. Muddy audio in reverse QRM. Used medical talk, most of which not audible. Mx w/ Japanese singing. Included mx in HRI addr. (SMOLINSKI,MD) 7415, 7/10, 1801-1810, SIO 144. Typical med pgm. (SMOLINSKI,MD via ANARC BBS) 7416, 7/1, 0012-0020. Mx by BB Snow. Talk abt grey hair & dizziness. (MASYGA,MN) 7416, 7/1, 0017. On 13B. Used PSA for health care. Some rock mx. (BACHS,IL)

QSO de Hope R/R Happy Hour/Samurai R: 7415, 7/5, 0034. Hope R. extremely strong. Later joined by PHH & R Happy Isles. (SMOLINSKI,MD via ANARC BBS) 7415, 7/5, 0119-0110, SIO variable. Jess Disgustin of HR Initiated QSO, asked if anyone had any pigging. R. Happy Hour anncd a xmsn @ 0700-0800 on 7545, said heading from Solomon Islands. HR went into Irish lounge, Samurai R joined in. (FULLER,MA via ANARC BBS)

RFM: 7490, 7/4, 0321-0357*. Hard to copy the New Age mx. Anncd 1st anniv pgm. Said to send SAGE & extra stamp to HRI. V. Short w/ tnx to Harry Callahan & Michael Myers. Jnd mixer was Nadine. (ARTHUR,NY via ANARC BBS) (MUSSELL,VA via ANARC BBS) (PROVANCE,OH) 7400, 7/4, 0413-0453*. 1st anniversary deal. HV Short & Nadine were annrs. Lots of mellow, sleepy time jazz, steel drum songs, PSA for entering career of politics & ad for stomach movie in a hospital. Stn personnel listed. "Visiting Hours" movie review by Joe Bob. (FULLER,MA via ANARC BBS) (MUSSELL,VA via ANARC BBS) (CONNOR,PA) (KARCHESKI,MA) (ROUTENBURG,ONT) (PROVANCE,OH)

Radio Clandestine: 7409 12, 6/9, 2110-2121, SIO=111. Funny adx w/ annments abt being off the N. Am. coast. Talk abt about the Cabin Boy. (ROSE,ONT)

Radio EXP: 7405, 7/4, 0111-0405* on under HRI, audible after HRI left. Clandestine rock. Said to send along entrails of a cat w/ QSL request. Donovan's "Mellow Yellow." Dr. Blue Sky DJ. (FULLER,MA via ANARC BBS) I've been after this one for years! PSE QSL. (ARTHUR,NY via ANARC BBS) PSE QSL. (KARCHESKI,MA) (CONNOR,PA) 7390, 7/5, 0042-0107*, SIO=212. Short clips of various Euro stns in GG, Dutch, EE. Repeated ID. (ROUTENBURG,ONT) 7415, 7/5, 0140-0225. Mx by Cream, Paul Revere. Wellsville addr. Wiped out by CW stn @ 0225. PSE QSL. Hrd after HRI/R Happy Hour QSO. Hrd "Kicks Keep Getting Harder to Find." (SMOLINSKI,MD via ANARC BBS) (FULLER,MA via ANARC BBS) (CONNOR,PA) (KARCHESKI,MA) (FOSTER,MI) 7415, 7/5, 0256-0302, SIO 242. Christmas mx. Hrd "Noel," OM DJ & off. (PROVANCE,OH) 7415, 7/10, 0304-0405. Dr Blue w/ mx by Janis Joplin, Traffic, Dylan, Fluke, Airplane. Fading. (CONNOR,PA) (SMOLINSKI,MD via ANARC BBS)

(HANINGTON,ONT) Best sig ever from Dr. Blue. (ARTHUR,NY via ANARC BBS) (MUSSELL,VA) (PROVANCE,OH) [Wellsville addr.]

Radio Fornication (tentative): 7382.5, 0138-0155*, SIO=222. Mx, OM talking. Wellsville addr?. PSE QSL. (SMOLINSKI,MD via ANARC BBS)

Radio Freddy's Nightmare: 7405, 6/29, 0430-0536+, SIO=322. Relay of TV show audio w/ several long pauses where commercials would be. Into QSO w/ 2 other ops, 1 being R. Texaco. Into SSB in QSO. (COLLINS,WI) 7400, 6/30, 0400-0448. Male annr talking in heavy nasal accents. BRS addr. Sounds like RFM & WLAR. (CARTER,CO) 7400, 7/1, 0448-0455*, SIO=444. Audio from movie abt famous fictional detectives (Charlie Chan, Colombo, Nick & Nora Charles, etc.) (CONNOR,PA)

Radio Mexico: 7400, 7/14, 0350-0406*, SIO=232+. BRS addr. Lots of Mexican mx w/ BRS. OM annr. (FULLER,MA via ANARC BBS)

Radio Nerd: 7400, 7/14, 0306-0323*, SIO=333. Heavy metal rock w/ annr trying to sound like a nerd giving stn ID. Phone for QSLs 819-254-8846, which is a fake. This is the weather service in Quebec. RCI intro sig. "Ted Miller" read the news. PSE QSL. Appeared to run items pirated from "real" radio stns. (FULLER,MA via ANARC BBS) (ROUTENBURG,ONT)

Radio Texaco: 7415, 6/29, 0515-0530, SIO=322. Whining childlike YL voice asked to write to BRS. "I Want My Dolly." "I'm starting kindergarten in the fall." QSO w/ R. Freddy's Nightmares. (COLLINS,WI)

Radio USA: 7415, 7/5, 0335-0336. Stn ID. (MASYGA,MN)

Revolutionary Voice of Plainville: 7412, 7/1, 0018-0037*. Repeated IS "This is the Rev. V of Plainville English Service." Interview w/ YL in lang. Anti-gov't protesters attack & take over studio. Commandante John to be executed. Mx "Different Drum." IS w/ National Anthem of Plainville at start. Flute mx. Ronstadt's "Beat of a Different Drum" hrd. Most talk not audible. Jamming after 0033. Baltimore addr. (CONNOR,PA) (SUESS,WI) (PROVANCE,OH) (ZELLER,OH)

Rockabilly Radio: 7412, 6/30, 0137-0153*. USB sig. Anncd all songs from 1956; lots of Gene Vincent. SSB sig. Said to send logs to mags & newsletters. PSE QSL. (SMOLINSKI,MD via ANARC BBS) (COLLINS,WI) 7412, 7/1, 0133-0153*. USB sig. No addr, QSL info to N. Am. Radio Clubs. Rockin' Rhino w/ every song from 1956. Mx "Miss You" "Blue Jean Baby", etc. PSE QSL. (SUESS,WI) (CONNOR,PA) (BAXTER,KS) (PROVANCE,OH) (ZELLER,OH) (ROUTENBURG,ONT) (FOSTER,MI)

SIBC/Radio Happy Isle: 7414.4, 7/5, 0127-0134*, SIO=353. Sort of a pgm, but primarily QSO w/ Hope R & Samurai R. OM w/ phony broken English claims to not understand xlation of talk by other stns. No prostitutes on his island, so residents wanting this must go to Australia. 2 addr: "Box 654, Soniata" & BRS. (ZELLER,OH) (FOSTER,MI) 7415, 7/5, 0127-0138*, SIO=444. SIBC (Radio Happy Isles) in QSO w/ Hope R, Samurai R. SIBC talked abt Solomon Islands weather, Justin Gustin of Hope Radio had occ comments. Samurai R. not hrd. KNBS's Phil Muzik maybe in there also. (CONNOR,PA) (MASYGA,MN) 7415, 7/5, 0302-0305, SIO=444. Hawaiian guitar mx & off. Tentative ID. PSE QSL. (PROVANCE,OH)

Samurai Radio: 7415, 7/4, 0332-0336. On & off "why are we having all these technical difficulties." Didn't here anymore after that. (COLLINS,WI) 7415.1, 7/5, 0058-0105*, SIO=252+. QSO w/ Hope R. OM Eddie Currents said hello to his monitoring stn. Other pirates invited to bcst on the freq. (ZELLER,OH) 7415, 7/5, 0315-0335, SIO=344. Testing w/ Beach Boys, Elton John mx. Mentioned technical difficulties. Asked for sig rpt from pirates listening. No response. (PROVANCE,OH) 7412.7, 7/7, 2321-2338, SIO=444. Decent, clean sig w/ good mod & very little fading. Var obscure mx by The Waitresses & The Hollies, mailbag, freq IDs & BRS addr. At QRT, asked other stns to call w/ sig rpt; only 1 taker - KNBS. (ARTHUR,NY via ANARC BBS) 7412.6, 7/7, 2342-2346, SIO=454. QSO w/ KNBS. Asked for sig rpts from other ops. (PROVANCE,OH)

Tube Radio(tentative): 7415, 6/30, 0249-0306*, SIO=222. OM talk abt something or other at great length. (MUSSELL,VA via ANARC BBS)

Voice of Revolutionary Vinco: 7403.8, 7/1, *0228*, SIO=454. OM w/ ID only. Presume just a prank, but possibly for real? PSE QSL. (PROVANCE,OH)

WENJ 7414.8, 8/10, 0152-0203, SIO=222. Blue Ridge Summit addr. Rock nm. OM DJ. IDed as WENJ & J-Rock. (ROSS,ONT)

WCKR 7418, 7/19, 0000-0050*. Two DJs, one called Rockin' Willy, playing nm (in AM) & talking in SSB. Mx by the Doors ("Gloria," "Light My Fire"), Aerosmith ("Toys in the Attic," "Outside My Window.") Lots of reggae nm. Abrupt w/off at 0020. QSO asked for ID. Came back & anncr "We are having technical difficulties, but we'll be back in a flash." Said they would give a QSL addr later, but never did. At 8:00, they said they were beating solid state, 100 watts on a diode 40 ft in the air. Attempted QSO by "Jingle Bells" at 0053 who received response de Radio Radio, but not WCKR. Clear sig w/ slight audio hup. Obviously not only 1 nm source. PSE QSL. (SUSS,MI) (SMOLINSKI,MD via ANARC BBS) (NASH,OH via ANARC BBS) (ARTHUR,NY via ANARC BBS) (PROVANCE,OH) (ROUTENBURG,ONT) (MASYGA,MN) (SACHS,IL)

WKTU 7418, 8/8, 0138-0140 & 0142-0145. Hrd stn playing basic rock nm. Talk not copied, except to a reference to R. Can. Picked out & back in. (MASYGA,MN)

WKEP 7414.8, 7/4, 2227-0020*. Songs incl version of "99 Red Balloons." Munsters theme, etc. Picked up by "A take off of "Money." Mentioned R. Burns & R. Clarendon, who were spunky & Radio Animal. BBS addr. Splatter de 4th of July radio. Mission Impossible theme at QRT. (SMOLINSKI,MD via ANARC BBS) (ROUTENBURG,ONT) (ZELLER,OH) (FOSTER,MI) (KOSANOWSKI,MA)

WLCK 7415, 7/14, 0030-0038, SIO=488. Rock and roll; dropped carrier, but back. Reggae style nm "One Bright Day." (ANDERSON,VA)

WRB?-FM 7395, 6/23, 0158-0205*. Poor sig. Hrd stn playing rock w/ tentative, partial ID. Lost to static. (MASON,MI)

WRNR 7349V, 2154-2215*, SIO=484. Anncd test w/ various disco songs w/ YL singer. "WRNR is making a come back." Had good attempt for occ squeals & periodic cut-outs in mid song. Hrd sig up 1/3 kHz in 20 mins. Anncd no addr, but listed for SIO. (SUSS,MI)

UNIDENTIFIEDS

7369, 7/5, 0052, SIO=488. Much QAN. OM anncr changed R Animal for QSL; ID not copied. PSE QSL. (SPURLOCK,TN via ANARC BBS)
7381.9, 7/8, 0111-0154*, SIO=488. Rock w/ talk by OM. Weak sig seemed undermod. Tentatively R. SMP. (ZELLER,OH)
7412.9, 7/8, 0134-0138*, SIO=444. A "broken" UFB stn. Sounded like "I say meroxidin" in broken-record singsong. (ANDERSON,VA)
7414, 7/8, 0304, SIO=388. Hawaiian (?) nm. QRT 0306. PSE QSL. (SPURLOCK,TN via ANARC BBS)
7414.7, 8/9, 0228-0229*. Poor copy. Jammer w/ "Get off the band while you can, man." (MASYGA,MN)
7414.8V, 7/18, 0303-0406*, SIO=481. NM hrd. Nothing else audible. (SUSS,MI)
7414.8X, 7/8, 0143-0200*, SIO=288/288-. Rock incl "No Time Left for You" w/ OM anncr. Severe interference de other pirates. Tentative ID of R. SMP. Clebbered at 0200 by s/on of Action R. (ZELLER,OH)
7414.9, 7/8, 0258-0308*, SIO=288. NM bun mx, Christmas carols & sound effects. Tent. ID of R. SMP. (ZELLER,OH)
7418, 8/24, 2014, SIO=238. Beltsville MD 1660 "experimental skywave testing stn" anncd being replayed several times. At 2025, called by someone "XAS, do you read..." w/ no reply. PSE QSL. (ROUTENBURG,ONT)
7418, 8/28, 0258-0300, SIO=222. Soul mx "I've Got You..." Something abt Australia, western countries, eastern countries. Box 1259. (ANDERSON,VA)
7418, 7/4, 0213-0217. C & W mx. 0244-0250 Rock mx & 0303-0306. (MASYGA,MN)

7415, 7/5, 0300-0326, SIO=423. Stn on & off during this period. Only recognized "Breathless" by Jerry Lee Lewis. (FOSTER,MI)
7415, 7/15, 0001-0051*, SIO=222. Anncr w/ rock mx "Gloria," "Light My Fire," Reggae song "One Fine Day." Op IDed on LSB, which I missed. Possibly WCKR. (CONNOR,PA) PSE QSL. (HAVRILKO,FL)
7415 SSB, 7/15, 0100, SIO=233. Hrd various QSOs in EE. (HAVRILKO,FL)
7415, 7/15, *0347*, SIO=323. Someone whistling 4th of July's IS over R. EXP sig. (PROVANCE,OH)
7415, 7/20, 0112, SIO=242. Some type of xmtr test w/ pop mx. (HAVRILKO,FL)
7419, 7/15, 0212, SIO=333. Wellsville addr w/ country mx. Possibly KXVN. (HAVRILKO,FL)
15036. 6/23, 2227-2235+. Poor copy. Hrd EZL mx w/ some talk. No voice copy; maybe a foreign lang. (MASYGA,MN)

ELSEWHERE IN THE WORLD

Radio Stella: 6320, 7/15, 0259-0336, SIO=322. Mx by Talking Heads, Beach Boys. (SMOLINSKI,MD via ANARC BBS) 6320, 7/15, 0338-0416, SIO=222. "Good Vibrations" by Beach Boys. Lots of Europirate news. Lots in static at 0416. (FULLER,MA via ANARC BBS) 6319.4, 7/15, 0340-0357, SIO=332. ID w/ mx incl "I've Got You Babe," "Hang On Sloopy," "Peggy Sue," & "The Winner Takes All." (HANINGTON,ONT)
Radio Truth (Africa): 5015t, 6/23, *0430, SIO=222. Several repetitions of an IS on local instruments. Followed by orchestral instrumental anthem. News items presented by male and female anncr in EG. PSE QSL. Does anyone have a recent QSL addr. Mail has been returned from both the UK and Vienna, VA addresses. Help! (KARCHESKI,MA)

PSE QSL ADDRESSES

Chas. Collins, 1977 S 74th St., West Allis, WI 53219.
Guy Connor, 3981 Rowena Drive, Philadelphia, PA 19114.
Ben Fuller, 41 Goodings Way, Falmouth, MA 02540.
Daniel Hanington, Shallow Lake, ONT, Canada NOH 2K0
W. Karcheski, Jr., 23 Gail Drive, Holden, MA 01520-1710.
Dennis Kosakowski, 52 Ridge Way, Sturbridge, MA 01566.
Alan P. Masyga, 758 W. King Street, Winona, MN 55987.
Terry Provance, 2530 Oakwood Ave., Zanesville, OH 43701-1948.
Chris Smolinski, 40 South Lake Way, Reisterstown, MD 21136.
Paul Spurlock, 4612 Morrow Road, Woodlawn, TN 37191.

EDITOR'S NOTE: Several members have asked how they can tell when it is time to renew ACE membership. Look at the mailing label on the back cover of any issue. Your name is printed, followed by a four digit number, such as 9012. The '90' indicates 1990, and the '12' means that the subscription ends in December. Therefore, the two digits of the year, followed by the month show the last month of your subscription.

Others have asked if back issues of the ACE are available for purchase. The answer is usually no. We print just enough issues for current subscribers, and samples for the month. This also keeps your cost to a minimum, so that everyone is not paying extra for larger printing costs. This basically is the way most volunteer, hobby clubs run, as we don't have space for keeping inventories of old magazines.

What 'numbers stations' send--and why they send it

By Don Bishop
P.O. Box 4075
Overland Park, KS 66204-0075

During a May 14 visit to the FCC's Vero Beach, Florida, field office (monitoring station), I interviewed lead electronics technician Robert J. Glennon and electronics technician David S. Ross about "numbers" stations.

Almost every shortwave listener has heard such stations. Their broadcasts carry

sequences of numbers read principally in Spanish and English, among other languages. Sometimes the numbers are sent in Morse code.

What are numbers stations?

Glennon: Numbers stations are very low priority intelligence stations. They are used for various things. None of them ever is very important because the code they use is too easy to break. It usually is a simple substitution code. They normally use five-digit groups for the traffic or bearing reports, things like that. Normally pretty simple stuff.

Most of these voice stations are obsolete as hell. Why would anyone who is passing valuable information risk repeating it over and over and over again on HF frequencies when they can pass it instantaneously on HF data systems or databurst systems that are a whole lot less easy to detect and/or break? The technology is World War II technology and prior-to-World War II technology. It is not a real valid system.



Dave Ross: 'There have been all kinds of theories about the content--the exchange rate of money, oil prices, and so forth.'

Why is such antiquated technology still in use?

Glennon: There are different schools of thought about it, why it is being used and who is using it.

One of the schools of thought I've heard of and that sounds more valid than any other is that it is a kind of "general information" intelligence broadcast. Anyone can tune into it anywhere in the world.

The content might indicate "we do or do not have information for certain units" or something like that. Listeners for whom messages are waiting then obtain their messages via whatever priority system they have, landline or computer-based or whatever. The traffic that actually goes out over numbers stations stations probably is minimal.

What information do numbers broadcasts contain?

Ross: There have been all kinds of theories about the content--the exchange rate of money, oil prices, etc.

Glennon: It could be information to people in obsolete little places down in Central America or elsewhere who might need information like that and who cannot get it from the daily newspaper or local radio.

Ross: It obviously is easier to take a simple multiband portable through customs in one of these little countries.

Glennon: If it is a one-way broadcast system, those who use information from the stations don't have to take a transmitter. Just an AM receiver.

Why do numbers stations use AM?

Ross: If the numbers stations have high-powered AM transmitters, their intended listeners



Bob Glennon: 'This is Boy Scout stuff. It is not a valid intelligence system. Anyone who wanted to break the code probably could do it fairly easily.'

do not need sophisticated receivers. Any simple shortwave receiver will get it.

If a customs official questions someone carrying a simple shortwave receiver, the listener can say, "It is just for my entertainment. I have to listen to the Voice of America. I have to stay in touch with my country."

Glennon: Plus, simple AM shortwave receivers are available almost anywhere in the world.

Ross: You can buy one in the country and throw it away when you leave.

Numbers stations are all over the dial at all hours.

Glennon: That's why it makes sense as a kind of all purpose informational broadcast more than anything else and not a two way traffic system. The information being disseminated that is not of a hell of a lot of importance anyway unless it is subliminal, such as some sort of encoding in the broken message that notifies a certain agent to contact whoever he has to contact by using another means. I would guess that is another possible communications aspect to it.

The fact that it is repetitive - that you can tune in an hour later and the announcer still is passing the same numbers over and over and over in case you have to tune in whenever you can and get whatever information you need and do whatever you have to do with it. Of all the theories I've heard, that is the one I've subscribed to. It makes more sense than anything else.

How difficult would it be to break the "numbers" code?

Glennon: This is Boy Scout stuff. It is not a valid intelligence system by any means. Anyone who wanted to break the code probably could do it fairly easily.

Ross: Each group a number is in and how many times the group is repeated may be a code itself. If you give the same group eight times, that indicates the number eight.

The positions of the heading indicators might provide additional information. ~~~~

*Glennon's and Ross' opinions are their own and do not necessarily represent the views of the Federal Communications Commission or the U.S. government. Glennon handled intelligence assignments during his service with the U.S. Marine Corps and the National Security Agency.

VERIED RESPONSE

your center for QSL information and comment

John T. Arthur, proprietor
RD #1, Box 15A
Belfast, NY 14711

...with a little help from my friends and Staff Reporters Mark Pierce and Bud Wooten. VR is electronically transmitted to A*C*E Hdq on or before the 24th of each month. Please send your input and comments to the above address or leave them in the [P]ersonal Mail section of the ANARC TBBS prior to the 18th. Your active participation in the form of reports, suggestions or constructive criticism is solicited.

*"Freedom is nowhere to be found when The People are
overtaxed and overregulated."*

--Douglas Wilder, Governor of Virginia

What's News:
the media report

An excellent source of equipment, for both listeners and budding Operators, is the Ham Traders Yellow Sheets. HTYS is packed full of receivers, transmitters, antennas, rotators, linear amplifiers, and just about everything else you can think of, offered for sale or trade by private citizens, and for just US\$15 per year you can have this valuable source delivered to your mailbox every two weeks. Need a good standby receiver? Look thru the new issue with one hand while holding your telephone in the other. There are many other seekers, of course, so you have to act fast when you see something you want or need. Subscribers also get a discount on advertising, so here's your chance to unload your closet-full of unused equipment - and pay for your subscription! Send your \$15 to: HTYS, PO Box 15142, Seattle, WA 98115. [thx Fearless Fred and Bud Wooten]

Time is drawing near for WARC-92; the World Administrative Radio Conference convenes February 3rd, 1992, to reallocate frequencies among terrestrial users. Under the greatest perceived threat is the 40 meter ham band (and the 41 meter pirate band), although there are also significant threats to 80, 30, 10 and 2 meters, along with 420 MHz. There is a real possibility that the US will manage to push through its proposal to move the 40 meter band to 6950-7250 kHz, and create a new exclusive international broadcasting band from 7250 to 7750 kHz - obviously a move to squelch pirate activity and legitimize current out-of-band allocations, specifically WWCR-7520. There is no sense rushing your comments to the Advisory Committee, however, as the input window closed at the end of July. Nice of them to let us know about it, hey? And to think that the USA still hasn't implemented one of the basic agreements made at WARC-79; that being to change spacing on the MW band to 9 kHz. [thx Don Bishop and Glenn Hauser]

Considering the budget crunch, the Savings & Loan bail-out and all that, I'd like to propose a way for the government to save about half a billion dollars for US Taxpayers. There are three totally unnecessary expenditures that could be deleted in full, right now: (1) Radio Free Europe/Radio Liberty cost the taxpayers \$190 million per year and no longer serve any purpose. (2) The Voice of America costs the taxpayers \$171 million per year and serves only to sow the seeds of discontent among people who won't be allowed into the USA. (3) The Federal Communications Commission costs us \$110 million per year and hasn't been doing what it was mandated to do under the Broadcasting Act of '34 for a good many years. To wit, the FCC is charged to 'administer and regulate' broadcasting. Anyone who has been in the radio hobby for very long knows that the Commission is totally inept and incapable of administering anything; they took a perfectly good, working broadcast band (MW) and piled on so many stations that nobody is making money anymore; they destroyed a perfectly good, logical system of issuing amateur callsigns (you could tell where a ham was just by listening to his call) and made it a very bad joke (the only thing a callsign tells you now is the class of the ham's license - and who cares?). Simply by eliminating these three budget items, the American taxpayer would realize an

immediate savings of \$471 million. A drop in the bucket of federal waste, to be sure, but a healthy start, I think. [jta]

support your club...say you read it in The ACE

Off the Wall... the home of three-dot journalism...

-- or --
the rumor center

A few updates for The Directory 14.1 are in order. ADD to Box 109: 4th of July Radio and One Voice Radio. ADD to Box 452: CFBN, "Fly By Night Radio", and WORK, "Workers Operating Radio Knobs". And one we totally forgot to mention: Radio Mauser Worldwide uses Box 55553, Trenton, NJ 08638. As always, be sure to include three first class stamps with your reports. If you live outside the USA enclose two or three INGS or a couple of US dollars. DO NOT send SASEs unless the particular station specifically requests them..!

Operators please note: one ounce of first class mail going to Canada costs 30 cents, not 25 cents. That holds true at least until they get the new rate increase, currently scheduled for February 1991...

Black Fly of CFBN writes to let us know that they've already done two broadcasts. Yeh, we know - and the second one really got out..!

WORK will feature labour oriented music and comment, and sez they'll be running a Johnson Ranger. Good rig..!

Dr Blue of Radio EXP (no relation to Mr Blue Sky of Radio USA) has done a bunch of antenna work and is surprising everybody by getting out well. He also sez that re-issues of original cards will be available on a random basis, so if you don't want just another plain white letterhead, ask...

As some of you reported, Phil Muzik has been QSOing a bit recently. In a QSO with Eddie Currents of Samurai Radio, Phil mentioned that the engineering staff was working on their transmitter again. A note received here sez work is proceeding normally (whatever that means) and confirms that KNBS should be back on with new programs in a month or so...

WINN apparently took offense at Bob Ross' report of a QSL letter from them. They took the unprecedented step of sending a follow-up non-QSL not only to Bob, but to several QSL editors including yours truly. However, I can understand the confusion; the non-QSL has full data at the top in English, while the rest of it is written in French-Egyptian-Eskimo or some such language. Wouldn't it be simpler to send a card that just said "NO" in big print as a non-verie..? Don Bishop mentions that FCC agent Serge Loginow doesn't need any qualifications to make his now infamous comment, "pirate operators are mildly disturbed individuals". Perhaps not, but it certainly seems unprofessional for a government employee to mouth off like that in public. Should we comment that Mr Loginow is obviously a mildly disturbed individual? Why not? Surely we don't need any qualifications either...

I note that several people involved with the "On Line" sessions are QSLing pirate broadcasts that they never actually heard. Reading about a pirate broadcast on a computer net does not constitute 'hearing' it; you have to have a radio and tune it in for yourself. Thus folks in NY who reported Zodiac Radio shouldn't expect a card, since the farthest East Zodiac was definitely heard was in Ohio... And a personal note to Kristin Kaye: No, there is no award for the most reports out. And if there were, the competition would be quite stiff, I can assure you. For instance, I generally have about a dozen out at any given time...

Mouthterpiece Theater (formerly: Soapbox) ACE members speak out

This month we present what I hope will be the last word on the QSO stations vs. "real" pirate stations question. A relatively recent ACE member, Maryanne Kehoe of Georgia, leaps upon the soapbox and speaks thusly:

"Ouch! Ouch! Ouch! With regards to the question posed as to what a 'real' pirate is, I'd like to add my comments. First of all, the one-shot-deal Operators may have a valid reason for only operating once (as in La Voz de FCC). Maybe they are testing equipment in

anticipation of more 'regular' (or semi-regular) broadcasts. Most important - on regular broadcasts, as we all know, the FCC looks for a pattern in preparation for a bust. Lastly, as listeners, pirate Ops don't "owe" us a broadcast, just because it's Easter, July 4th, Halloween, etc. (I would venture to say those are prime FCC listening times - true jta?)

"This (whole controversy) reminds me of a similar discussion we had at EODX'88 in Antwerp: what is a DXer vs. what is SWL?" s/Maryanne

A point well taken. Perhaps we could ask the FCC whether they see any difference between a pirate broadcast or a QSO... I venture to say they are all considered the same to the Feds, and the fact is that ANY unlicensed operation of a transmitter is equally illegal, so the question is really moot. As to your question about 'prime FCC listening times', the feeling has traditionally been that FCC agents are people too, and like normal people they have families they want to spend holidays with. Thus, while monitoring stations may be staffed, regional offices are usually closed. This may not be the case any more, particularly since so many Operators select holidays to make broadcasts. Thanks again for writing - and please do so again soon. jta

What do YOU think? VR is a forum for Your opinion and comment. Kindly organize Your thoughts, be concise and expect comment directed at Yours. I may edit to fit space available but will try not to alter Your intended meaning.

+++ under the door +++

QSL report for: August 1990

Ontario's Bob Ross checks in with a full data blue tourist card from Radio Ganymede - 7415 in two months, and a full data prepared card from KFAT - 7400 signed by "The Fat Dork" in six weeks.

Havana Moon's Los Numeros On Line received a full data card (#6) from the Voice of Bono signed by Gary Daniels and Bono, the wonder dog and guiding light along with a personal note from Gary.

Pennsylvania's Andy Yoder racked up a full data first anniversary card from RFM - 7400 signed by HVShort in three days, a no data logo sheet from Radio Texaco in three weeks, a full data computer sheet (#4) from KBFA - 7415 signed by "Archer" for a report aired over R Ganymede, a full data beer flap from Voice of Intoxication - 7390 for a PSE QSL! in PiPa, and a full data rhino sheet (#5) from Rockabilly Radio - 7415 signed by Rocky Rhino in 20 days for a PSE QSL! in A*C*E Dialogs.

Maryland's Chris Smolinski decided to re-decorate the shack with a "commandante" card from Radio Mauser Worldwide - 7490 signed by Dr Selsyn who said 500 watts, a full data green paper card from One Voice Radio - 7414 signed by Joe who said 40 watts and sent along one of their famous "footnotes", a full data postcard from Radio Stella - 6320 signed by Jock Wilson, a frequency and date only "evolution" sheet from WYMN - 7427 for a follow-up report on a reception in 1984, a full data "production team" sheet (#24) from WLIS signed by Charles Poltz, and a full data clown sheet (#25) from Radio Comedy Club International - 7417 saying they were being relayed but not by whom.

Virginia's Steve Rogovich flew his radio kite and was zapped by a full data "lightning bolt" card (#12) from RFM - 7400 signed by HVShort in 25 days.

Tennessee's Paul Spurlock hit the jackpot - he received three QSLs in one envelope: a full page special sheet from Radio USA signed by Mr Blue Sky, a blue on white card from Samurai Radi signed by Eddie Currents, and a full page "mixed Fruit" VOM(it) sheet from Voice of Monotony signed by Uncle Salty, all for the April joint broadcast.

Ohio's A*C*E columnist George Zeller was pickled tink to receive a
August 1990

full data multi-colored folder from KFAT - 7400 signed by "The Fat Dork" in 59 days, and a full data beer flap from the Voice of Intoxication - 7411 in 40 days - signer was unreadable (natch!).

Michigan's Jeff Foster catches us up on his catches: a full data sheet from WTNU - 7400 in 11 days, a full data "clowns" sheet (#22) from Radio Comedy Club International - 7388 in 35 days, a full data green slip from East Coast Pirate Radio - 7417 signed by N Tesla in 20 days, a yellow "Oh No!" card (#264) and joint broadcast sheet from Radio USA - 7396 signed by Mr Blue Sky with personal note in 25 days, a full data blue tourist slip from Radio Ganymede - 7415 in 35 days, a full data green card (#29) and footnote from One Voice Radio signed by Joe in 20 days, a full data "lightning bolt" card (#9) from RFM - 7400 signed by HVShort in 15 days, a full data beer flap from Voice of Intoxication for report in PiPa in 12 days, and a no data postcard from Insomnia signed by Phlox.

New Mexico's John Brewer reports a full data card (#4) from the Voice of Bono signed by Gary Daniels and Bono the wonder dog in about 15 days, and a full data computer sheet from Voice of Stench signed by Eddie Egghead Johnson in about 30 days.

Ye Olde Editore squeezed out a few more: a full data first anniversary card (#2) from RFM - 7490 signed by HVShort in six days, two full data letters and a card from Radio EXP - 7385 and 7415 in eight days each, a full data "rhino" sheet (#19) from Rockabilly Radio - 7415LSB signed by Rocky Rhino in about three weeks with pennant, and a full data "reading room" card (#006) from CFBN - 7415 signed by the Fly Brothers (house and black) in 18 days.

Best of DX and 73...

continued from page 15

A sample copy of ERN is \$3 & 6 months costs \$14 & 1 year is \$24. That seems abit steep to me, considering that issues are 16 pages long at full-size type with lots of white space. Still, if ya have an FM pirate, the information might really come in handy sometime (or even now). ERN, PO Box 130, Paradise, CA 95967.

Other Things

Radio Marabu (West Germany) and WFRL (UK) were both heard in the US, actually both in Pennsylvania. Hopefully the Euros will try some more tests to NA. Oh, aslo Dave Valko from PA has been hearing an unid with non-stop music on 6272 kHz. He just got a postcard from a Fine Tuning member in Europe telling him that it's actually the Northern Ireland Relay Service! I havent seen that one logged over here for a while, so be sure to look for'em.

News from Italy: the Voice of Europe has been on 7538v KHz alot recently, so look for'em there. They're a private, not a pirate, running 1 KW, but it's still interesting to tune into once or twice before the disco music gets too nauseating! Also, the IRRS (Italian Radio Relay Service) which was "piratish" because it relayed pirates, has gone the other way. Now they're done testing and the cost per hour of airtime is \$65!

Rockabilly R: Radio Animal hrd your 7/1 show and would like a QSL. Thanx!

Bud "Mr. Reading Material" Wooten does it again! This time it's the new catalog from AMOK--4th Dispatch. At 351 pages (8 1/2 x 11), it's pretty amazing! The cost is \$5 & some of their radio-oriented books include: '89 Pirate R.Dir., Clandestine Confidential, Radio is My Bomb, The Radio Papers, etc. Sounds very interesting! The add is: AMOK, PO Box 861867, Terminal Annex, Los Angeles, CA 90086

A new station signed up for the Blue Ridge Summit add is: 4th of July Radio I don't think they've sent anything out yet and I don't have any other info right now, but maybe soon?

Back on the merchandise subject, If ya just can't get enough...Pirate Radio Stations: Tuning in to Underground Broadcasts is still available via me for 12.50\$ US and Radio Clandestine t-shirts are still available to ACE members for \$8.50 US (anything ordered is postage-paid) from: PB 109,BRS, PA 17214. Make all checks payable to Andrew Yoder (the "N" doesn't hafta be capitalized.

See yya nnext ttme & be sure to contribute...most anything!@

DX Clip Board

Andrew Yoder
POB 109
Blue Ridge Summit, PA
17214

Howdy from somewhere near Amish country! The radio's been pretty good lately, despite all of the FCC threats & actions. I think that this past weekend 7/14 was definitely one of the better ones for hearing lotsa sations, good broadcasts and good signals. I'll stop wasting space now; if ya wanna read about it, check the Dialogs colum....

Hope Radio

Something related to the above is the massive change that's come over Hope Radio. Yow! It's pretty incredible--if MJ keeps it up, he might finish very high in the ACE pirate poll for next year. Incase you've missed Hope Radio lately, some of the latest features have been a music program from ACE's own John Arthur, pirate news from Radio Animal (ex-WKND), some comedy from Radio Comedy Club International, a few promos from Sparky at WKZP, and even recipes from the Cajun Cook. Very entertaining! And to top it off, MJ has got the transmitter now running at 350 watts, instead of the 75 that the station ran in the past. In the past few days, the station has received reports from Texas, Florida, Louisiana, and (of course) EVERYWHERE in the Northeast & Midwest.

Action Radio

Another piece of news that relates to the fist paragraph is Action Radio, which has finally made it to the air after months of promotion in the ACE. Truth is, A.J. Michaels has had many transmitter problems. But recently, the station got on the air with about 25 watts from a Heathkit DX-60B. Their high-powered transmitter is still getting fixed, but look out for it soon!

The format at Action Radio jsut seems to be pop music, but I'm not sure. I only heard about 10 minutes of a test program from the station last weekend. One interesting thing about the station is the slogan, "Radio from the city of the Three Rivers." This obvious reference to Pittsburgh and the fact that a Pittsburgh telephone number is listed on their QSL card is pretty interesting! I wonder how the FCC is going to react to this, in light of all of their problems with WKND and the Radio ANimal?

WKND/Radio ANimal

And what would the DX Clip Board be without some talk aboutWKND and the Radio Animal? Don Bishop's great article on the station last month covered most everything, but a few more developments have oozed out since then. No, he hasnt gotten busted again or anything like that. Actually, it's some good news. A long feature/news piece appeared in the Pittsburgh Business Times of July 8 and about three days later, The Radio Arnial was featured in the evening newscasts from WPXI (Channel 11) in Pittsburgh! It all sounded like a great time and a great feature; I think the ACE might've even been on TV! (I'm not sure, I haven't seen the piece yet). It's funny that Radio Animal went to a concert that night and he heard at least one person say "hey, it's that guy from TV who ran that radio station..." If this is how negative publicity is supposed to hurt the pirate scene, look FCC guys; it just aint workin'!

To top it all off, the Radio Animal hasn't just "rolled over and played dead." His technical information has helped out a number of stations already, and just so far, his programming has been heard over Hope Radio, WKZP, Action Radio, and a few others. Fortunately, he's the first operator since the guys at WCPR/WFAT/WGUT/WHOT/RNI to really stick with free radio, even after getting busted by the FCC.

I'm not sure about what's coming up in the near future for The Radio Animal--probably a lot more of the same (except no transmitter operation on his part!!). He's still looking for a legal radio job around Pittsburgh, but we'll see what happens

ERN

The Electronics & Radio Hobbyists Newsletter hasnt gotten much publicity in ACE lately, so it's worth mentioning. It's also worth mentioning, because the last double-issue has a few items that should be of interest to most ACE members. First off is a LONG letter-to-the-editor from Fearless Fred at Radio Garbanzo. This was written in response to an editorial about pirates using supposedly childish names, such as "Garbanzo, Laryngitis, and the Voice of Stench." I have to agree with Fred on it. Even if you don't agree, it's worth checking out this issue just to learn much more information about the station.

Also included in this issue is a fairly long letter with some interesting info from "John Doe/Hal Hall/Hugh Hughes/Hank Hayes" from WCPR/WFAT/WGUT/WHOT/RNI. A decent photo is included with them in the studios. Pretty cool.

In general, ERN covers lots of technical info and it is especially aimed at the FM pirate technoid. Unfortunately, these guys think that creativity isn't dignified and most of the featured stations do their best to imitate the local commercial broadcasters. I don't see the point in doing it if that's the case, but still these guys can teach ya a thing or three about equipment and operations. Some of the people featured in ERN know enough about technical stuff to make your nose hairs crawl!

ACE LOGGING FORM

Name ----- receiver -----
 City ----- State ----- Zip -----
 Remember: All dates and times in GMT. *0000 means xmission began at 0000,
 0000* means xmission ended at 0000. Additional comments may be added on the
 back of each appropriate logging.

 Station ----- Frequency -----
 Mode (circle one): AM USB LSB DSB FM other ----- date (gmt) -----
 time (gmt) ----- SIO ----- Comments: -----

 Name, State -----

 Station ----- Frequency -----
 Mode (circle one): AM USB LSB DSB FM other ----- date (gmt) -----
 time (gmt) ----- SIO ----- Comments: -----

 Name, State -----

 Station ----- Frequency -----
 Mode (circle one): AM USB LSB DSB FM other ----- date (gmt) -----
 time (gmt) ----- SIO ----- Comments: -----

 Name, State -----

 Station ----- Frequency -----
 Mode (circle one): AM USB LSB DSB FM other ----- date (gmt) -----
 time (gmt) ----- SIO ----- Comments: -----

 Name, State -----

RFM shortwave offers listeners 'new age' jazz

By Don Bishop
P.O. Box 4075
Overland Park, KS 66204-0075

When H.V. Short fires up his Johnson Viking Challenger transmitter, listeners from St. Johns, Newfoundland, to Kansas City, Missouri, are treated to another broadcast from RFM. RFM originally was known as Radio Free Massachusetts.

Short said he has broadcast since July 1989 on 7 MHz and 15 MHz frequencies. "I play new age jazz because I like it," he said. "It is different fare from what other pirates broadcast. It is very listenable. At my age, I don't care for rock and roll. Most of the lyrics the rock singers mumble." As for his age, Short said he is "old enough to know better" than to be a pirate.

RFM's first broadcast was on July 4, 1989. "My QSL appeared on the November *ACE* cover," Short said.

"So far I have good results," he said. "Most people who have written like the station and the music." He said new age jazz often is used for background music for commercials and TV news broadcasts.

'Me and the Mrs.'

RFM staff consists of "me and the Mrs.," Short said. Of his wife, he said: "She thought I was nuts. But she's been convinced of that on other occasions!" Short said his wife has "a mild interest" in his pirate broadcasting. Nevertheless, she designed RFM's QSL cards.

"I attempted to get another friend in on it. Her name is Tuppence. She has a beautiful speaking voice. She used to be on the station ID." Since Short changed the mail drop he uses, he has not had an opportunity to record a new station ID with Tuppence's voice.

Short said he scheduled a recording session in which he wanted Tuppence to record some humorous parody commercials, "but to be blunt, she got gassed and the recording session had to come to an end! I wanted a different voice to add variety to the program. It has to be boring listening to the same voice."

Amazon women

Short said his best source for different voices has been the soundtrack from the movie *Amazon Women on the Moon*. "It's a cult film that includes clever parodies of commercial advertising. I've used quite a few of those. Now I have to make up my own."

Short's pirate broadcasting adventure had its roots in his purchase three years ago of a Sony 2010 shortwave receiver. "I got bored with that," he said. Then he bought an issue of *Popular Communications*. "They seemed to have information on the shortwave broadcast band. They had a pirate column. That put me onto pirates."

He sent reception reports to pirates he heard. The first QSL received was from Radio Clandestine. A year later, he began his own broadcasts.

WJDI 'most admired'

When asked what pirate station he admires most, Short said he admires WJDI's



RFM operator H.V. Short poses with his shortwave broadcast studio and transmitter setup. A highly infrequent schedule of short broadcasts helps RFM to evade detection by the authorities.

"dynamite" signal. "WJDI is tops in that league. Station operator 'George Donahue' uses a slight amount of reverb, such as professional studios use. Just a tad, so if you get a strong signal, it sounds professional."

Hamfest purchase

Short bought the Challenger transmitter at a hamfest. "I was prepared to spend all kinds of money, but it turned out I didn't have to. The transmitter was the least expensive part of the station, compared to the cost of antennas, SWR meters and QSLs."

Short said the transmitter required no adaptation at all because it is designed for screen grid-modulated AM. He modified the transmitter slightly because it is designed for intermittent, rather than constant, transmitting. "I quickly found the weak spot and fixed it," Short said. "All it amounted to was a component change."

First broadcast

RFM's first broadcast had periods of dead air, Short said, because he recorded his tape in stereo and switched from right to left channel. When the tape was played into the transmitter from a monaural playback unit, only one channel reached the air. As the tape played, Short watched the street for unwanted visitors and monitored a television for interference.

His first broadcast brought three or four reception reports. Short attributes the limited

response to his broadcast including only one or two station IDs.

The second broadcast included station IDs between nearly every record. That broadcast brought "all kinds of reception reports," he said.

Pirates on tape

Short records all his programs for playback on the air. "If I were to be on the air 'live' it would be disaster. There would be long gaps in the program when I would be fishing for tapes or compact discs, and trying to read my scripts." A desk in a room of Short's home holds RFM's studio equipment. "One of these days I'll have to go 'live,'" he said.

"There are pirate 'stations,' if you will, that only exist on tape. Their programs are broadcast through other facilities. I thought they were unique," Short said.

To date, RFM has received 42 reception reports. "There is a consistency in where I am being received which may have to do with my antenna, a dipole that really is too close to the ground. But I don't want to put it too high where it can be seen."

'Bust strategy'

Short has worked out a strategy to use if an FCC engineer ever pays him a visit. "I'll say, 'who are you and what do you want?' My location is not on a cul-de-sac, it is on a main drag and not in a residential area, so if a van would pull up and stop, it would be unusual. That may work for me in giving me time," he said. RFM broadcasts are irregularly scheduled and last about 45 minutes.

"I'm probably going to get bored before I get caught," he said. "I'm trying to combat the boredom by not broadcasting too frequently. Not broadcasting too often may combat the boredom and prevent me from being caught, too."

Short most recently was heard on a May 28 RFM broadcast.

FCC busts Illinois FM pirate relay station

March 25, Eric B. Hultgren made his last relay of WBBM-FM, Chicago, to listeners in Rockford, Illinois. That day, an FCC electronics engineer closed the station. Hultgren had been using a two-watt transmitter and a vertical antenna to retransmit WBBM-FM's programming on 88.1 MHz.

The relay apparently was not appreciated by at least one licensed Rockford radio station. A representative of the station complained that there was a pirate radio station in the area, according to FCC Chicago office electronics engineer Will Gray.

Gray said the broadcast station had received complaints from its listeners. "Their listeners were receiving interference and they wanted to know if a new station were in area or what the problem was. That alerted us to the pirate."

Gray said the Chicago office's work schedule allowed an engineer to visit Rockford on routine business about three months after the complaint was received.

Hultgren, who apparently operated the station on weekends and, every now and then, on weekdays, allowed the FCC engineer to inspect his station. The engineer observed a homemade transmitter mounted onto a Pioneer cable box, Gray said.

Hultgren, who is unemployed, was fined \$1,000. Gray said Chicago office engineer-in-charge Phillip Bradford has agreed to accept payment of the fine in \$100 installments, and that Hultgren has made at least two payments. "The entire fine must be paid within one year," Gray said.

CLANDESTINE PROFILE by George Zeller

Your loggings and information on clandestine radio stations are always welcome for this column. You can mail them to your editor at 3492 West 123rd Street, Cleveland, Ohio 44111. Or, you can call (216) 941-3366 anytime, or else (216) 696-9077 between 1200-2045 UTC on weekdays. Many of us are in the middle of the summer DX-ing "dog days," with a constant battle against seasonally high static levels. Your editor just returned from a non-DX week in Seattle, where I delivered a poverty research paper at a professional conference. Thus, our level of hot clandestine DX news is slightly low this month. Nevertheless, we have a number of very interesting miscellaneous items.

EL SALVADOR CLANDESTINES

With the apparent recent demise of the right wing Nicaraguan clandestines that were sponsored by the United States government, the hub of current Latin American clandestine activity has shifted to El Salvador. The FMLN's long-running Radio Venceremos and Radio Farabundo Marti left-wing stations have provided fascinating targets for North American clandestine DX-ers for years now. But, in the July issue of *The Journal of the North American Shortwave Association*, Bruce MacGibbon's "Listeners Notebook" column engages in some intriguing speculation about the current status of Radio Venceremos. Bruce cites a question by Hans Johnson of Maryland. Hans has not heard the formerly ubiquitous Venceremos for a couple of months, despite frequent checks of this station's former frequency ranges (6300v and 6650v KHz, both highly variable from day to day and from minute to minute). Hans speculates that the Venceremos transmitters may have been located in Nicaragua, and that their operations may have shut town at least temporarily following the demise of the leftist Sandanista government in that country. Glenn Hauser picked up this item on his "World of Radio" show, so the current status of Radio Venceremos has suddenly become a hot clandestine DX puzzle.

Your editor has not been hearing Venceremos lately either, but this does not necessarily mean that they are not on the air with shortwave transmitters. Summer propagation of daylight transmissions from Central America to North America is always bad during the summer on 6 MHz, and this sometimes accounts for seasonally poor reception of Latin American clandestines in North America during the summer. I did hear the other El Salvador clandestine, Radio Farabundo Marti, on 6720v KHz from 0130-0145+ UTC on June 28, with a definite clear ID at 0144. The station jumped frequencies very rapidly, at least once per minute. Farabundo Marti was jammed by MOR Spanish language music, and the jamming was quite efficient. As the station swished its VFO around, a loud "whoop" noise in the ECSS carrier could be heard on my receiver. The jamming and rapid frequency jumping made it very difficult to listen for program content. So, at least one of the El Salvador clandestine stations is still with us. I would be very surprised if Radio Venceremos makes a permanent exit from the shortwave bands. We also should remember that Radio Venceremos has been carried by an extensive network of FM translators with QTH's within El Salvador for a number of years.

5046 KHz NUMBERS STATION

We usually focus exclusively on clandestine stations in this column; numbers and other strange signals are the domain of Harry Helms and Havana Moon. But, information is beginning to pile up on the strange 5046 KHz numbers station that we mentioned in last month's Clandestine Profile. I am sure that both Harry Helms and Havana Moon will also cover this issue. On July 4, I heard EE YL 5D xxx-xx numbers on 5046 KHz (not // 6840 KHz) from 1452-1511+ UTC using typical A3H modulation. (USB plus full carrier, but no modulation of the lower sideband). In Cleveland, this reception came at 11:00 a.m. local EDT time, or 10:00 a.m. standard local time. This was more than four hours after local sunrise, and the sun was shining brightly high overhead. Despite this condition of broad daylight, the 60 meter signal came in at a moderate S7 level on the NRD-525 S meter. The station was the only thing audible on 60 meters at this time, to the surprise of nobody, given propagation conditions at this time of day.

A*C*E member Ben Fuller Jr. of Massachusetts also checks in with a log of the same 5046 KHz numbers station at 1500 UTC on July 9, although he had it at a very weak level from his receiving QTH in eastern Massachusetts. (BEN- per your request, I'll forward your tape to Havana Moon). As signal strength measurements of this numbers transmitter begin to pile up, it seems extremely likely that this station is located somewhere in or near Virginia. Now, why would the United States government broadcast numbers in broad daylight on 60 meters from Virginia? Some theories are emerging, and both Harry Helms and Havana Moon are certain to explore them in their columns. We have stumbled across a very interesting situation here, and your signal strength reports will continue to be highly useful. Please check out 5046 KHz around 1500 UTC (and during other daylight hours), and forward your signal reports to both Harry Helms and Havana Moon.

VOICE OF THE KHMER

A*C*E member Mike Hardester of Okinawa sends in a clandestine logging that he has tentatively identified as the Voice of the Khmer. On June 23 he heard the station from 1220-1307+ UTC on 6325 KHz. They featured nearly continuous male/female/group musical selections with a female announcer. He heard mentions of "Khmer" and "Thai" during a 1300 UTC station ID. Their language was not definite in Mike's report, although he is sure that it was not Vietnamese. (It's likely Khmer- editor). While Mike lists the logging as tentative, it looks pretty sure that he did hear the Voice of the Khmer ID, with reference to one of their correspondence addresses in Thailand. Talk by alternating male and female announcers followed the ID. Mike had a SIO=343 on this one from his QTH in Okinawa, but as Bob Ross of Ontario has shown many times, the broadcast can also be picked up in North America early in the morning with a little effort. Mike mentions that he will be returning to the USA mainland in early August- welcome back!

RESULTS ARE IN FROM KROPP CLANDESTINE CONTEST

A*C*E has received a Press Release from Mathias Kropf of West Germany with the results of his annual clandestine DX contest, held this year between April 13 and 16. (Thanks go to A*C*E Publisher Kirk Baxter in Kansas for forwarding the Kropf information). This year there were 24 entries from DX-ers in 11 different countries. 15 of 20 targeted clandestine stations were reported during the contest period. The winner of the contest was Franz Suss of Romania, with Leif Johansen of Norway claiming runner-up honors. A separate "America" regional section of the contest was won by Luis Felipe Perez-Guzman of the Dominican Republic. If you are interested in participating in next year's contest for clandestine DX-ers, why not drop a line (with return postage) to Mathias Kropf, Mahr-Schonberger-Strasse 9, 6430 Bad Hersfeld 1, Federal Republic of Germany.

WTRA SEMI-CLANDESTINE IN SPRINGFIELD, ILLINOIS

During recent months, the A*C*E has occasionally referred to Dewayne Readus' long-running FM pirate station in Springfield, Illinois. The story of this station is both fascinating and unique, and I have been waiting for a month when this column would have enough space available for a discussion of WTRA from a clandestine perspective. That month has arrived.

Dewayne Readus, a 31 year old blind resident of the John Jay Homes public housing project in Springfield, has operated a one watt FM pirate station from his apartment since November 1986. His signal reaches out about 1½ miles, covering one-eighth of the city of Springfield. But, a majority of the city's black residents are within his coverage area. Readus programs black music, tapes of books written by people such as Malcom X and Bobby Seale of the Black Panthers, news, interviews with local residents who have grievances with the city and its police, reports on tenants rights, occasional recordings from scanner reception of local police transmissions, etc. The station serves as a grass-roots community forum for the minority community of Springfield, particularly its low income population.

In March the station aired a series of talk shows in which callers were invited to describe instances of brutality by the Springfield Police Department. The local Police Chief was not thrilled about this, so he called in the FCC. The FCC issued a Notice of Apparent Liability to Readus, and a March 30 order in Federal Court found WTRA in violation of FCC regulations. However, Readus ignored both the FCC notice and the court order, and he refused to pay an associated fine of \$750. Since that time he has continued daily radio broadcasts as civil disobedience, and he has now been on the air for over 300 consecutive nights. (NOTE: In an unrelated matter, the Springfield Police Chief was suspended later in the year during an investigation of sexual extortion/blackmail charges, according to Cultural Democracy magazine). So far, neither the FCC or the courts have attempted to arrest Readus, despite his defiant stance. In fact, he turned himself in at the local Federal Building, but he was not arrested, and he has thus far not been compelled to pay the \$750 fine.

The WTRA story has received widespread publicity at the local and national levels through advocacy efforts led by Mike Townsend, a member of the Social Work faculty at Sangamon State University in Springfield. Readus and Townsend argue vigorously that FCC regulations are rigged in favor of corporate interests, that community groups have no access to the MW/FM airwaves because of the FCC's refusal to license low power broadcasters (or to license anyone who does not have substantial funding that is required to obtain an FCC broadcasting station license), and that low power community radio should be used as a political tool in local urban areas. Obviously, most A*C*E members will be familiar with this sort of logic. Many pirate stations, as well as many A*C*E articles in places like John T. Arthur's "Veried Response" column, have advocated a similar position for many years.

The WTRA/Readus case is particularly unusual because of Readus himself. He obviously is not a traditional hobby pirate. His station appears to actually be a semi-clandestine operation at the local level in Springfield. He has openly defied both the FCC and the federal courts. Because of his charisma, nobody has thus far had the guts to arrest a poor and blind local political activist who enjoys extensive community support. WTRA operates on a non-interference basis to other FM broadcast stations. Hence, the political implications for USA broadcasting regulations are obvious. If the FCC were to arrest Readus, they would be admitting that FCC policy is in fact intentionally drawn in a manner that excludes poor blacks from access to the broadcast spectrum. This would be an admission that would be politically embarrassing, and it probably accounts for the fact that they curiously allow WTRA to broadcast regularly in defiance of the Apparent Liability Notice and the court order.

WTRA enjoys support from a number of organizations, and it has received media coverage in some national publications. But, it has solicited more assistance. They request financial donations, additional media coverage, donations of equipment and programming materials that are oriented toward an urban black audience, suggestions, and help from minority activists. (As part of the latter request, the latest WTRA release says, "No Urban League or NAACP types please.")!! A number of A*C*E members may be interested in the issues raised by the station. More information is available from contact person Mike Townsend, Department of Social Work, Sangamon State University, Springfield, Illinois 62794. If you write, be sure and mention that you heard of WTRA in the A*C*E.

Even though it is only a one watt local FM station, WTRA may be the only station that has made daily clandestine broadcasts for a whole year with a target area in the United States since the end of World War II. We will try and keep our eyes on developments at the station.

THANKS!

This month we thank direct contributors Ben Fuller Jr. (Massachusetts), Mike Hardester (Okinawa), Kirk Baxter (Kansas), Mathias Kropf (West Germany), Mike Townsend (Illinois), and George Zeller (Ohio). Next month we hope to hear from YOU by August 18 for the September Clandestine Profile column.

FCC gets KRAZY in Moreno Valley, CA

Two electronics engineers and public affairs specialist Jane Butler from the San Diego FCC office shut down FM pirate station KRAZY on April 30. The bust closed a 24-hour station on 104.9 MHz that included between 20 and 50 "volunteer DJs." The station had begun broadcasting at 2 a.m. on March 23. Station owner Mike Donovan, 27, was fined \$1,000. No equipment was taken from the station by the FCC.

Donovan told Moreno Valley *Press-Enterprise* reporter Sandra Rodriguez that he thought no license was required for an FM station with less than 10 watts output. (During the station inspection, an FCC engineer measured the KRAZY transmitter power output at 8 watts.)

Accounts of pirate broadcasting activities often contain contradictions, and the KRAZY story is no different. For example, although Rodriguez reported Donovan said his station required no license, she also reported him as saying he expected to receive an FCC license in September.

Donovan had separated from the Air Force on March 7 and apparently had spent his savings on the station project. Rodriguez reported him as saying the station represented "an idea whose time has come" and that he was certain "it will be just a matter of time before it begins turning a profit."

Although Donovan was referring to his financial investment, his statement prophesized the eventual FCC raid when he told Rodriguez, "I'm really putting my carcass on the line with this."

Moreno Valley is near Los Angeles, between Riverside and Palm Springs. The 8-watt signal covered approximately a five-mile radius from the transmitter.

COVERT CORNER

There's another mystery signal to scratch your head over. George Zeller calls it the "motorboat" or "slow machine gun." I like "motorboat" better, so from this point forward it's *The Motorboat*. At any rate..... George heard it on July 4 from 0210 to 0216 sign off centered on 7357 kHz but spread 20 kHz above and below that frequency. He says the noise blanker on his NRD-525, *The DX Machine of Your Dreams*®, has no effect on it. I heard it myself the next night, July 5, around 0520, centered around 7419 kHz but spread from 7410 to 7435 kHz. It was strong!!

So what is it? You got me, but the strength and steady signal here indicate it's domestic in origin. A new over-the-horizon radar??? If you want to wade through a technical article on the different types of OTH radar systems in use, take a look at the July issue of *IEEE Spectrum*.

Another puzzle has returned after another brief absence—yes, the Foghorn is back! I heard it on July 18 from 0517 on 7415 with a pattern of 10 to 40 seconds on followed by about a minute of silence. This was classic Foghorn activity, with several change-ups in the tone and operating pattern.

The situation with KKN44 on 4886 is approaching high camp. Monrovia, Liberia is a city that has been without electricity, water, and other basic services for weeks. Civil order has disintegrated. Yet KKN44, supposedly at the U.S. embassy in Monrovia, continues to crank out its QRA marker in CW like a lobotomized ham radio traffic handler (there is no other kind, by the way). Signals are strong night after night, much stronger and more steady than any west African 60-meter broadcasters. You would think that a station really in Liberia would have a lot of serious traffic to pass, no? And you'd think the Department of State would drop the silly fiction that KKN44 is in Liberia, yes? So where is it really???

That's all for this month—sorry folks, I can only print what you submit. Last month Andy Yoder asked what should be sent to this column and what should be sent to HM. Andy said he was "really ignorant." Andy, I disagree with that. You're not "really ignorant." *Genuinely ignorant*, maybe, but certainly not really ignorant. So here's the scoop: anything dealing with numbers stations or phonetic alphabet stations goes to HM; everything else (Motorboats, Foghorns, KKN stations, strange SSB nets, beeps, pulses, etc.) goes to me. Is everyone happy now????

Hope you're having a great summer. Howzabout some reports???



THE ANARC BBS

The ANARC BBS (formerly the ACE BBS), has been on line since 1984. The system first was known as the ACE BBS, handling messages and news for the club, and was the first club operated open system. In 1988, the system expanded and became the ANARC BBS, with the inclusion of message areas for any ANARC club that wished to have coverage. The ACE still holds a prominent place on the system, and yours truly is the SysOp (System Operator). Messages can be left in the ACE loggings section for inclusion in the DiaLogs column, and general news can be entered in the Free Radio section. Messages to many of our editors including John Arthur, Havana Moon, and Harry Helms can be sent, and many ACE members from across the country can be reached via the SHORTWAVE ECHO, which links the ANARC system with hundreds of other BBSs throughout North America. The system runs 24 hrs/day (except for system mail processing), and is accessible at 300/1200/2400 baud (8,N,1) at (913) 345-1978.

How confidential is your crystal purchase?

By Don Bishop
P.O. Box 4075
Overland Park, KS 66204-0075

"We know [name deleted] ordered the crystals. What is he doing with them?"

"I told him, 'You'll have to talk with [name deleted].'"

That is part of a conversation James Keul said he had with FCC electronics engineer Jim Zoulek when Zoulek busted Keul's pirate radio broadcast station, Zodiac Radio shortwave, in Anaheim, California. "He didn't mention the name of the supplier, but he said he knew where I had got them," Keul said. Keul had asked someone else to order the crystals on his behalf. According to Keul, it was that person—"Mr. X,"—for whom Zoulek mistook Keul. "Zoulek thought I was 'Mr. X' because in fact 'Mr. X' ordered the crystals. It shocked me. 'How do you know him?' I asked.

"International Crystal will sell you crystals for \$10," Keul said, "and then they will notify the FCC that you bought them."

According to FCC Los Angeles field office engineer-in-charge Lawrence D. Guy, no information was obtained from International Crystal. "We do not obtain any information from crystal manufacturers. I don't have the time to go to that much trouble," he said.

Legitimate, obvious, legal right

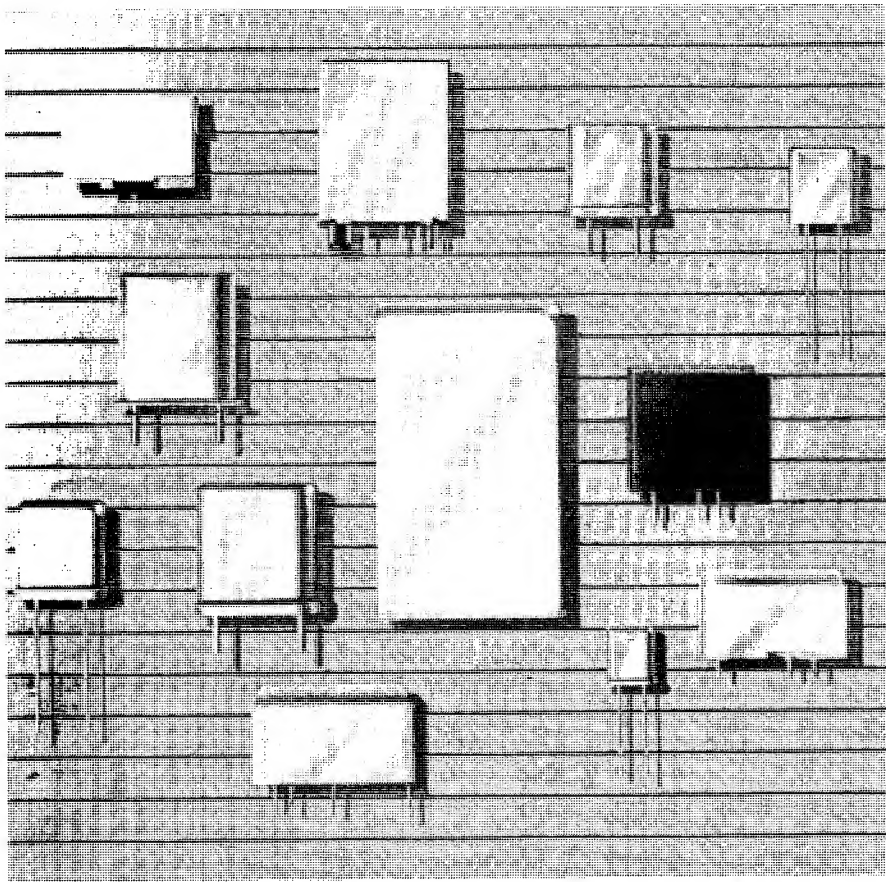
Royden Freeland, president of International Crystal Manufacturing, Oklahoma City, said: "We're not going to give the FCC information about our customers unless there is a legitimate, obvious, legal right for them to have that information, whether or not a subpoena is involved."

Asked if an FCC field office requested information about the purchasers of crystals for specific frequencies in a given area, would he release the information, Freeland said: "It is a possibility. We would attempt to. You have to remember we handle thousands of orders every week. Most of that information is on our customer database in the computer for some short length of time, maybe six months to a year."

Retrieval expense

He said retrieving such information is expensive, which is another reason why the company would not spend a lot of time on such a project "unless we feel it is a very legitimate thing." Freeland said: "The cost to us is considerable. It might take 10 hours of my computer VP manager's time to conduct such a search."

Would it be more persuasive if an FCC request involved interference on an air traffic control frequency or a police radio channel? "Absolutely," Freeland responded. "We are going to be sympathetic to emergencies and cases that are life-threatening. That's just human nature. I would be more interested in helping them in those cases than I would—maybe—a pirate—although we know some folks at the FCC and we certainly want to cooperate with them any way we can."



Pirate broadcast station operators whose transmitters lack frequency dials use quartz crystals to set their transmitters to their favorite broadcasting frequency. Even if their transmitters have dials (variable frequency oscillators, or VFOs), some pirates use crystals to make broadcasts on frequencies their transmitters' dials do not cover. (Photo courtesy of International Crystal Manufacturing.)

Freeland said he is a licensed radio amateur and he tries to obey the rules. "We certainly don't knowingly cause interference by selling people crystals. But as a practical matter it is just about impossible for us to do any type of front-end looking to determine what the use of that crystal is. There are too many permutations and combinations. Crystals are used for anything that has a clock in it of any sort. Computers are another obvious application. Phase-lock loops use a lot of them. Original equipment manufacturing companies use a lot of crystals. The paging industry uses a lot of crystals. Most of the smaller, inexpensive hand-held radios in the commercial end still are crystal-controlled."

Fishing or guessing

Regarding Zoulek and Guy, Freeland said: "I'm not familiar with either of the gentlemen you're talking about. It may be Keul did buy his crystals from me and I would

be the one--there would not be any database searches done without my authorization. Whether or not Zoulek said what Keul said he did, or whether he was fishing or guessing, I do not know."

Freeland said he does get calls from the FCC from time to time. "But they are so rare. I can't remember when the last one was. It may have been five years ago. It certainly is not something they do on a regular basis as far as we're concerned."

He said there are many reasons why his company would not release information about its crystal customers. "But if the information were something that the FCC would be legally entitled to, and I think the FCC legally would be entitled to that information, whether or not it is subpoenaed. If they want to come in and subpoena records, they can do it," he said.

FBI paranoia

Freeland said many customers are concerned about the confidentiality of their crystal purchases, whether their purposes are legitimate or not. "It always amazed me that the FBI would call up and want to buy crystals, but they wouldn't want to tell us what frequency or what kind of radio they were for. You would have to talk with them and try to explain what the problems were. It is very difficult to make a crystal and not know what the frequency is and not know in what circuit it is to function. We explained to them, if you send an order for crystals, we have no idea what you are doing with them. We don't care."

"That was the other side of the coin. They were paranoid about other people trying to find out what they were doing. Certainly we didn't care and we didn't know. If a customer orders a crystal to a specific load, we have no idea what they are doing."

Freeland concluded: "I don't particularly condone pirate radio but I don't know of any case where we've talked with the FCC recently about anything of that nature. If asked, we would make every effort to supply the information if it appeared to be a legitimate cause of action."

Crystal sources

Crystals are available from many manufacturers, including:

B-D Crystal Enterprises, Erlanger, Kentucky.

Cal Crystal Lab, Anaheim, California.

Crystek Crystal, Fort Meyers, Florida.

Elenex, North Cohocton, New York.

International Crystal Manufacturing, Oklahoma City.

Jan Crystals, Fort Meyers, Florida.

Standard Communications, Los Angeles

In addition to orders that might be placed directly with manufacturers, orders can be placed through dozens of dealers. But many pirate broadcasters may know only of the largest suppliers, of whom International Crystal is one.

To be sure of matching a customer name to a frequency the FCC has under surveillance, the agency would have to survey most, if not all, of the crystal sources. For one manufacturer, the expense of searching the company database might not be wasted. For all the rest, it surely would be.

The effort required to find an illegal transmitter through a crystal supplier thus would seem to be many times greater than the effort expended in using radio direction-finding techniques. This conclusion is consistent with FCC actions, which show the agency's heavy reliance on direction-finding to locate unknown transmitters.

Nevertheless, it is impossible to reconcile Keul's account with the statements made by engineer-in-charge Guy and crystal company executive Freeland.

HAVANA MOON



HAVANA MOON
117 W. Harrison Building
6th Floor, Suite H-319
Chicago, IL 50504

Luminous and cool
The polished rock drifts
To the bottom of the still pool
Steadily reflecting the moonglow
-- kurichan

* NUMBERS 101, Part 8 *

In Part 7 I pointed out just how important it is to watch and listen - and I've heard from no small number of you who have indicated that you've been doing just that. And that you're amazed at what you've discovered.

John Brewer discovered that the big bad old CW Numbers Station which gets in the way of his pirate chasing on 7413 kHz is probably more than one station - with probably more than one operator. And the operator has - on more than one occasion - been so sloppy that he totally fouled up the header of the message!

Larry Ledlow discovered that the 4-D Spanish numbers on 6840 kHz at 0230 were suddenly no longer the dull, repetitious two 4-D groups. repeated night after night for week after week. Instead, there were subtle, curious changes - different numbers and different group counts heard on different nights - with strangely repetitive number groups bridging one night's message into the next.

So the lesson revisited - is watch and listen. That's where the answer to the mystery lies.

SPECIAL REQUEST

The above mentioned traffic on 6840 kHz is very interesting, indeed. This is a call for loggings - any and all loggings of the 0230 4-D Spanish transmission on this frequency, and its parallel on 9958 kHz. How well can you hear it, what observations have you made. Please date the logging and note the local day of the week of your intercept.

AND NOW . . .

Frequency	Mode	Time	Format	Logged By	Comments
3245.00	AM	0300	4D-SS-YL	Kk/NY	Live transmission
4881.00	AM	0030	5L-EE-YL	Kk/NY	
6840.00	AM	0230	4D-SS-YL	BJ/CA	Two repeating groups
6840.00	AM	0200	5L-EE-YL	Kk/NY	
6840.00	AM	0300	5D-SS-YL	Kk/NY	
6840.00	AM	0320	5D-SS-YL	JCF/FL	
6840.00	AM	0336	5D-SS-YL	Kk/NY	
7415.00	AM	0040	5D-??-YL	Kk/NY	Synthesized voice
7460.00	AM	0925	4D-SS-OM	RH/TN	Live transmission
7860.00	AM	0530	5D-SS-YL	WB/MD	
8186.00	AM	0501	5D-SS-YL	VOS/??	
8873.00	AM	0521	5D-SS-YL	VOS/??	
9133.00	AM	0311	5D-SS-YL	JV/CA	
9186.00	AM	0830	5D-SS-YL	WB/MD	
9220.00	AM	0311	5D-SS-YL	JV/CA	
9325.00	AM	2342	5D-GG-YL	VOS/??	
10125.00	AM	0043	PAB-EE-YL	Kk/NY	CIO-2, Faster/distorted
10125.00	AM	2345	PAB-EE-YL	Kk/NY	CIO-2, Earliest heard
10402.00	AM	0310	3/2-GG-YL	JCF/FL	Some EE numbers mixed in
10402.00	AM	0300	3/2-GG-YL	JCF/FL	Synthesized voice

10655.00	AM	0405	5D-GG-YL	WB/MD	
12301.00	AM	0100	4D-SS-YL	Kk/NY	
12314.00	AM	0534	3/2-GG-YL	WB/MD	KW, With PN Interval Signal
14440.00	AM	1700	5D-EE-YL	WB/MD	Repeating groups
16197.00	USB	1444	5D-EE-YL	VOS/??	

CONTRIBUTORS CORNER

Jim Vickonoff, Brian Johnson, Roger Henderson, Ben Fuller, Jr., William Blight, Kk, John Fulford and that Numbers-oriented Bandit of the Spectrum, Eddie "Egghead" Johnson of The Voice of Stench!

HM's YL OF THE MONTH

There's a 'New Kid on the Block' among radio magazines these days. RadioScan Magazine - which came on the scene just a couple of months ago. They featured their premiere issue at the Dayton Hamfest and have had three additional successful issues since then. (\$19.95/year from RadioScan Corporation, Suite 2K-5, 175 Fontainebleau Boulevard, Miami, FL 33172.

I know what it takes to put a magazine together - and any of you who may have written for any of the popular radio magazines know how long the lead time can be - it ranges from two to six months! The lead time on this magazine is 10 days. That's right - 10 days. So figure it out. Where's the timeliest information going to be?

So how does this relate to YL of the Month? Quite directly. Rita Viannay, KC4MJG, is the Advertising Director, Chief Cook and Bottle Washer at RadioScan. She works night and day to meet their very tight turnaround - and she does it with style. So hats are off to Rita - The A*C*E YL of the Month for August!

HM's ON-LINE UPDATE

Saturday Night Pirate Chasing on Portal's Los Numeros has *not* been suspended in spite of either the summer RF doldrums OR my !\$\$(*)_(@\$\$_)+ modem problems. And no, Virginia, the colorful and descriptive comments above have not been corrupted by line noise. They are as you see them. Good news, though, our own 'kk' has saved the day. She's managed (finally) to convince me that I need what she refers to gently as a "real" computer - and promises to get me through it. (Whatever 'it' is). We'll keep you posted.

13 new Pirate QSL trophies this month for the LN Amigas - details have been provided to John Arthur - read all about them in Veried Response. After all these years I've got to admit - Pirate chasing can give Numbers chasing a good run for its money. Never thought you'd ever catch me say that!

And a big welcome to Martha Wood - the newest member of ACE to join the Amigas. Glad you're aboard, Martha!

Chris Smolinski's Antenna Workshop has solved problems for more than one frustrated Shortwave Listener - even 'kk' has a new longwire strung up in the back yard. WIRED - The Inside Story on Antennas is live every Saturday night at 9:30 Eastern, on Portal.

HM's E-MAIL RECEPTION REPORT OF THE MONTH

Date: 09 Jul 90 18:09:49 EDT
From: "Ben Fuller, Jr" <sun!CompuServe.COM!76535.474>
To: Havana Moon <HAVANAMOON@cup.portal.com>
Subject: Christmas Carol Pirate
Message-Id: <"900709220948 76535.474 DHK27-1"@CompuServe.COM>

I thought I was the only weirdo who tuned through the Pirate Band on weeknights. I too heard the Christmas Carol Pirate that night & reported it in PiPa #27. My receiver does not get SSB so I was not able to understand that they were saying, but I did hear lots of SSB discussions. Unfortunately, I don't have a tape.

August 1990

He struck again on 5 July on 7415 @ 0258 with "Noel Noel" after which I heard "This is radio _____." I haven't had time to really listen to the tape through the graphic equalizer (my recorder has a minimal device) which sometimes allows me to filter out disturbing noise. If you want to take a hack at it yourself let me know and I'll pass it along you can reach me via Compuserve at 76535.474@Compuserve.com.

'73'

Oh, yes, Ben - that receiver is tuned every night of the week! Nice to hear from you! A copy of that tape would probably be of great value to Chippie - she still hasn't been able to ID the "Christmas Caruso Pirate" we told you about last month.

If any of you have access to the many e-mail gateways that abound these days, you can probably reach me. All of the following addresses are checked daily - so write early and write often!

HAVANAMOON@cup.portal.com
...!sun!portal!cup.portal.com!HAVANAMOON
HAVANA.MOON (Genie)
1:272/39 (FidoNet)

MEANDERING MOON

High Tech's Tiny Tech - A Brief Review of The Latest (and Mini) Gadgets

- Datastore 8000 - a credit card-sized, computerized notebook by Selectronics. This is the device that you don't want to leave home without. Holds up to 400 telephone numbers, or two line personal memos like lunch dates and secret equations. (\$45.00)
- Language Master - a seven-inch long computerized dictionary and Thesaurus from Franklin Computer Corporation. Gives the spelling and definition of 80,000 plus words, along with a 35,000 word Thesaurus. (\$299.99)
- Finally, from CVDS Products, the Loto-MAster - the personal lottery computer. Doesn't guarantee winners, but will generate quick-pick random numbers and combinations either by your system or its own. (\$49.95)
- If you happen to be in LA, why not drop by Bill Cajka's Pop-Art Designs at PATTON/DUVAL Art Gallery, at 8215 Melrose Avenue. This is where you'll find radios that, as one columnist said, 'scream to be seen as well as heard.' You'll find radios encased in Plexiglass, with splattered paint finishes with shocking combinations of color that range in price from \$450 for small models. Custom designs are also available. Do check it out!

HM RECOMMENDS . . .

- Two new *RADIO*101* Titles, brief introductions to various facets of Shortwave Listening written specifically to newcomers to the Hobby. Each title gives the reader basic information on the topic, some helpful hints, and a detailed listing of reference materials which cover the topic in more depth and at a much more advanced level.
- THE JOLLY ROGER FLIES AGAIN: A Pirate Radio Primer, by Nicholas R. Trio - a recent subscriber to The A*C*E and
- AN ANTENNA PRIMER by Frank P. Maloney, a Professor of radio astronomy at Villanova University.

Each title is available through The Radio Collection, PO Box 149, Briarcliff Manor, NY 10510, for \$3.95 plus \$1.00 shipping/handling.

- The 8/90 edition of Popular Communications Magazine - where you'll find a great new article by our own Harry Helms. Harry revisits those oddities of the spectrum he's so good at finding - don't miss

this one, it's a winner, folks!

- The 1991 Passport to World Band Radio - available for shipment in early September - special price from The Radio Collection - only \$13.95. And that INCLUDES domestic shipping and handling. The retail price on the new edition will be \$16.95 - you won't find a better deal anywhere, if you ask me! And a special bonus for A*C*E Members only - a discount certificate toward your next purchase with every order for Passport! I don't need to tell you how important this book is to your Listening Library. So order your 1991 edition today.

- LOS ANGELES MAGAZINE - which just celebrated its 30th Anniversary with the July edition. Over the past months this slick and colorful magazine has featured such articles as "High Tech Tips for Survival", "Would You Buy a Hot VCR From This Man?", and "LA Handbook: Phone Numbers You Need", which just so happens to contain the phone number (213/809-2096) of the FCC's LA Field Office. So call in your complaints, folks! The highlight of each and every edition is Tom Nolan's "On The Town" which chronicles the incredible adventures of Mr. Los Angeles, and his friends Amy, Robert The Actor and Francis Xavier.

Difficult to locate outside California, but available by subscription from the Los Angeles Magazine Subscription Department, PO Box 10726, Des Moines, IA 50347-0726. \$20/year.

While it's not a radio publication - this magazine is a definite winner, and I guarantee you'll find the monthly exploits of Mr. Los Angeles alone are well worth the subscription price.

It's been said by some few that Mr. Los Angeles is to the City of Angels as Havana Moon is to Miami. A City of Angels with broken wings, dirty faces and Uzis. So come on down, Mr. Los Angeles, and see Miami like a native!

THE LAST WORD, WITH KRISTIN KAYE

The mail keeps a-coming! And the prevailing question over the past couple of months has been about databases - specifically, what Loggings and QSL tracking software might be available out there.

I looked for months and loaded two programs full of loggings before I found that the reporting constraints were really getting in my way. So I took Tom Sundstrom's advice - and I built my own. You don't need to be a master programmer - there are several database packages that are inexpensive and easy to use. And best of all, you can create fields for all the information that's important to *you*, and lay your reports out the way *you* want to see them!

There are two database products you might want to consider, PC-File and Pirouette. PC-File is a traditional flat file system, with easy-to-use menus, good documentation and a flexible report writer. Pirouette is a fully relational database system - which says you can write reports which pull in information from multiple databases. Each is available as Shareware - PC-File for about \$99.00, Pirouette for about \$50.00. Shareware can be found on many BBSs and on-line systems, available for download. It's an honor-bound system - if you like what you see and you intend to use the software - you're required to forward the modest licensing fee to the author.

88s 'kk'

Reach 'kk' via e-mail at any of the following addresses:

Internet - kk@cup.portal.com, Fido-kk 1:272/39, Genie-K.Kaye
UUCP - ...!sun!portal!cup.portal.com!kk

Time now for a Tecate . . . Adios... Havana Moon y Amigas

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ASSOCIATION OF CLANDESTINE RADIO ENTHUSIASTS
P. O. Box 11201
Shawnee Mission, KS 66207-0201

The A+C+E is an association of individuals who find pirate, clandestine and covert communications an interesting part of their radio listening hobby. The primary existence of the club revolves around the publication of a monthly bulletin, The A+C+E. The bulletin reports on pirate, clandestine, covert and other unexplained broadcasts. Also, the readers are provided with other available material concerning motives, explanations and theories behind these various broadcasts and broadcasters. The ACE as an organization, does not encourage, support or condone any illegal activity; we simply seek to understand the nature and reasoning behind such broadcasts. If your interests include listening to pirate radio stations, clandestine broadcasts and covert communications, The A+C+E is for you!

Our Editors...
John Arthur Varied Response
Kirk Baxter Dialogs
Harry Helms Covert Corner

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